**BELAVENTSEV, N.V.**

[Molding and repairing pairs of railroad car wheels] Formirovanie i remont vagonnykh kolesnykh par. Izd. 2. Moskva, Gos. transp. zhel-dor. izd-vo, 1952. 303 p.

(MLRA 6:5)

(Car--Wheels)

BELAVENTSEV, N.V.

BRAVICHEV, V.A., kandidat tekhnicheskikh nauk, dotsent; BRODOVICH, N.V., kandidat tekhnicheskikh nauk; VLASOV, V.I., kandidat tekhnicheskikh nauk, retsenzent, redaktor; YEGORNOV, A.N., professor, retsenzent, redaktor; ZOBNIN, N.P., doktor tekhnicheskikh nauk, professor,; IVANNIKOV, D.G., kandidat tekhnicheskikh nauk, dotsent; KIRKIN, V.G., doktor tekhnicheskikh nauk,professor; KOTOV, O.K. kandidat tekhnicheskikh nauk; MARIYENBAKH, L.M., doktor tekhnicheskikh nauk, professor; MASHONIN, P.A., inzhener, RUBINSHTEYN, S.A., inzhener, RUDOY, M.L. inzhener, YUDIN , D.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; PETROV, N.I., inzhener, retsenzent; SIDOROV, S.I., inzhener, retsenzent; SOKOLOV, I.G., kandidat tekhnicheskikh nauk, retsenzent; BERESTOVA, Ye.I., inzhener, retsenzent; DOROKHIN, P.N., kandidat tekhnicheskikh nauk, retsenzent; RUSTEM, S.L., kandidat tekhnicheskikh nauk, dotsent, redaktor; LARIN, M.N., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk, retsenzent; SOKOLOV, A.V., inzhener, retsenzent; GRUDOV, P.P., laureat Stalinskoy premii, dotsent kandidat tekhnicheskikh nauk, retsenzent;DONNER, L.L., inzhener, retsenzent; ZOBNIN, professor, doktor tekhnicheskikh nauk, retsenzent; BELAVENTSEV, N.V., inzhener, retsenzent; SYCHEV, B.P., dotsent, retsenzent; SHKOL'NIK, L.M., kandidat tekhnicheskikh nauk, retsenzent; LOBANOV, D.V., kandidat tekhnicheskikh nauk,dotsent, retsenzent, redaktor; MASHONIN, P.A., inzhener, retsenzent, redaktor; OBUKHOV, A.V., inzhener, redaktor; BELETSKIY, D.G., kandidat tekhnicheskikh nauk, dotsent, redaktor; ODING, I.A., redaktor; LEVITSKIY, kandidat tekhnicheskikh nauk, dotsent, redaktor; YUDSON, D.M., tekhnicheskiy redaktor

(Continued on next card)

BRAVICHEV, V.A, kandidat tekhnicheskikh nauk, dotsent; & others (Card 2)

[Railroad man's technical mamal] Tekhnicheskii spravochnik zheleznodorozhnika. Red.kollegiia; V.I. Vlasov. A.N.Egornov, N.P. Zobnin, E.F Rudoi (Glav.red.) A.V.Sokolov. Moskva, Gos.transportnoe zhel-dor.izd-vo. Vol. 12 [Processing metals at railroad transport enterprises] Obrabotka metallov na predrpiiatiiakh zheleznodorozhnogo transporta. Otvet.red. N.P.Zobnin. 1954. 671 p.(MLRA 8:11)

1. Chlen-korrespondent, AN SSSR (for Oding)
(Mechanical engineering)

Belaventsev, N.V.

BELAVENTSEV, N.V., inzh.; BOGDANOV, F.Ya., inzh.; KAMANOV, L.G., inzh.;
VALETOV, A.I., inzh.red.; BOBROVA, Ye.N., tekhn.red.

[Manual for foremen of car wheel shops] Rukovodstvo masteru kolesnogo tsekha. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 279 p.
(MIRA 11:2)

1. Russia (1923- U.S.S.R.) Ministerstvo putey soobshcheniya.
(Car wheels)

KOMAROV, S.G.; SAMOKHVALOV, S.F.; BELAVENTSEV, N.V.; BOMBARDIROV, P.P.; AMELINA, A.A.; BLIZNYUK, ~~V.F.; LADYGIN, V.I.~~; PEROV, A.N.; VASIL'YEV, I.P.; BRODOVICH, N.B.; RABINOV, A.M.; ALEKSEYEV, V.D.; YEGOROV, V.A., inzh.,red.; ARSHINOV, I.M.,inzh.,red.; VERINA, G.P.,tekhn. red.

[Handbook on the repair of freight cars] Spravochnik po remontu gruzovykh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 503 p. (MIRA 11:12)

(Railroads--Freight cars--Maintenance and repair)

CHIRKIN, Viktor Vasil'yevich, kand.tekhn.nauk; SOKOLOV, Ivan Georgiyevich, kand.tekhn.nauk; VERSHINSKIY, Vladimir Vasil'yevich, inzh. Prinimali uchastiye: BELAVENTSEV, N.V., inzh.; DOBKIN, S.Z., inzh. KAZANSKIY, G.A., inzh., retsenzent; SMIRNOV, A.V., red.; DANILOV, L.N., red.izd-va; SAFRANOVA, I.Yu., red.izd-va; UVAROVA, A.F., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

[Technology of car construction] Tekhnologiia vagonostroeniia. Pod obshchei red. V.V.Chirkina. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 483 p. (MIRA 13:11)
(Railroads--Cars--Construction)

NASEDKINA, V.A.; BELAVENTSEVA, G.N.; KHOVANSKIY, I.P. tekhnicheskiy redaktor.

[Origin and development of life on the earth. Origin of man] Vozniknovenie i razvitie zhizni na zemle. Proiskhozhdenie cheloveka. Izd. 2-e, dop.Moskva, Gos.bib-ka SSSR imeni V.I. Lenina. 1955. 52 p. (MLRA 8:9)

(Life--Origin) (Man--Origin)

BELAVENTSEVA, Galina Nikolayevna; NASEDKINA, B.A., redaktor; KHOVANSKIY, I.P., tekhnicheskiy redaktor.

[Medicine does not recognize miracles] Meditsina ne priznaet chudes. Moskva, M-vo kul'tury RSFSR, 1956. 19 p.(Besedy o novykh nauchno-populiarnykh knigakh, no.2) (MIRA 10:6)
(BIBLIOGRAPHY--MEDICINE)

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[How illnesses originate and how to guard against them; a bibliography] Otchego byvaiut bolezni i kak ot nikh uberech'sia; rekomendatel'nyi ukazatel' nauonno-populiarnoi literatury po meditsine. Moskava, Gos. bibliteka SSSR im. V.I.Lenina, 1957. 44 p. (MLRA 10:4)
(BIBLIOGRAPHY--PATHOLOGY)

BELAVENTSEVA, G.N., BOGATOVA, G.P., LEVINA, S.S., NASEDKINA, B.A., FOMINA, Ye.N., red.; ABRIKOSOVA, F.S., red.; AMBARTSUMYAN, red.; VASILEVSKAYA, V.A. red.; DROZDOVA, N.N., red.; ZHAK, D.K., red.; KOPELOVA, G.I., red.; LEVASHEVA, Z.P., red.; SMIRNOVA, B.A., red.; TIMOSHENKO, G.G., red.; KHRENKOVA, A.A., red.; KHELEMSKAYA, L.M., tekhn.red.

[Catalog for district libraries. Classes: Natural sciences - 5; Medecine- 61; Geography - 91] Katalog raionnoi biblioteki. Otdely: 5 estestvoznanie, 61 meditsina, 91 geografia. Izd. 3., dop. i perer. Moskva, 1958. 215 p. (MIRA 11:8)

1. Moscow. Publichnaya biblioteka.
(Bibliography--medicine) (Bibliography--Geography)
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BELAVENTSEVA, Galina Nikolayevna

[New advances in medicine; survey of popular scientific literature] Novosti meditsiny; obzor nauchno-populiarnoi literatury. Moskva, 1959. 14 p. (Novosti nauki i tekhniki, no.20). (MIRA 13:8)
(MEDICINE)

BELAVENTSEVA, Galina Nikolayevna; DERYABINA, Tat'yana Nikolayevna;
DEMENT'YEVA, Ye.V., red.; VASIL'YEVA, L.P., tekhn.red.

[Fighters for human health] Bortsy za zdorov'e cheloveka. Moskva, Gos.tsentr.nauchn.med.biblioteka, 1961. 28 p. (Besedy o nauchno-populiarnykh knigakh, no.9).

(MIRA 14:4)

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BELAVENTSEVA, Galina Nikolayevna; DEMENT'YEVA, Ye.V., red.; VASIL'YEVA, L.P., tekhn. red.

[Origin of man, life of the human organism; index to popular scientific literature] Proiskhozhdenie cheloveka, zhizn' chelovecheskogo organizma; ukazatel' nauchno-populiarnoi literatury. Izd.3., dop. i perer. Moskva, Gos. biblioteka SSSR im. V.I.Lenina, 1961. 44 p. (MIRA 14:12)
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(BIBLIOGRAPHY—HYGIENE)

BELAVENTSEVA, G.N.; DERYABINA, T.N., red.

[Public health in a rural community; annotated lists of the literature] Sanitarnaia kul'tura sela; annotirovannye spiski literatury. Moskva, Izd-vo "Kniga," 1964. 38 p. (V pomoshch' chitateliu, no.6) (MIRA 17:9)

1. Moscow. Publichnaya biblioteka.

BELAVENTSEVA, G.N.; DERYABINA, T.N.

[Chemistry for medicine; a review of recommended literature]
Khimiia v meditsine; rekomendatel'nyi obzor literatury. Moskva,
Izd-vo "Kniga," 1965. 23 p. (Novoe v nauke i tekhnike, no.10)
(MIRA 18:8)

1. Moskow. Gosudarstvennaya nauchnaya meditsinskaya biblioteka.

BAUKOV, Yu.I.; BELAVIN, I.Yu.; LUTSENKO, I.F.

Study of O- and C-organometallic isomers. Part 1: Reaction of dialkylhalogermanes and dialkylchlorostannanes with esters of mercury bisacetic acid. Zhur. ob. khim. 35 no.6:1092-1094 Je '65.
(MIRA 18:6)

L 30978-66 EWT(m)/EWA(d)/T/EWP(t) IJP(c) JD/HW

ACC NR: AP6012658 SOURCE CODE: UR/0129/65/000/001/0049/0050

40

B

AUTHOR: Belavin, N. F.

ORG: Scientific Research Institute of Experimental Surgical Equipment and Instruments (Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov)

TITLE: Isothermal transformation of austenite in EI-515 stainless

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 1, 1965, 49-50

TOPIC TAGS: austenite, stainless steel, grain structure, isothermal transformation, metal heat treatment, surgical equipment/EI-515 stainless steel

ABSTRACT: The kinetics of the isothermal transformation of austenite were studied for stainless steel EI-515 which is used for articles of the medical industry, especially, surgical instruments. The chemical composition of this steel is: 0.9-1.1% C, 0.6% Mn, 0.6% Si, 0.03% P, 0.03% S, 12-14.5% Cr, 0.5% Ni, and 1.4-1.8% Mo. Transformation temperatures for this steel: $Ac_1$=797 C, $Ac_3$=828 C, $Ar_1$=692 C, and $Ar_3$=745 C.

Rapid (induction) heating shifts the knee of the TTT curve to the left which is an indication of the decreased stability of induction heated austenite as compared to ordinary furnace heating, and the rapid decomposition of austenite is explained by the finer grain structure and greater degree of heterogeneity as to carbon content. [JPRS]

SUB CODE: 11, 13 / SUBM DATE: none

Card 1/1

UDC: 669.14.018.8:620.18

L 27988-66 EWA(h)/EWT(l)/EWT(m)/ETC(f)/EWG(m)/T DS

ACC NR: AT6005741

SOURCE CODE: UR/2529/64/000/082/0058/0066

25

B+1

**AUTHOR:** Nigmatullin, R. Sh.; Belavin, V. A.

**ORG:** none

**TITLE:** Electrolytic fractional differentiating and integrating two-terminal network

**SOURCE:** Kazan. Aviatsionnyy institut. Trudy, no. 82, 1964. Radiotekhnika i elektronika (Radio enginerring and electronics), 58-66

**TOPIC TAGS:** solion, differentiation, integration

**ABSTRACT:** The principle of operation of the solion is described. By using a solion equivalent circuit and known relations between solion impedance, frequencies, and electrode sizes, formulas and curves for the upper cutoff frequency are developed for three values of the electrochemical-reaction-rate constant; solion frequency and phase characteristics are plotted. Also, experimental data obtained from a solion with a microelectrode diameter of 0.05 cm and $\bar{C}_1 = \bar{C}_2 = 0.0001$ mol/cm$^3$ measured at three values (7, 5.7, 5) of parameter $\theta$ is reported. The temperature coefficient of the solion measured within 10--60C proved to be 2% to 0.3% per degree for frequencies of 1--2000 cps. Signals up to 50 mv could be handled, and the nonlinear-distortion factor was 5% or lower. The experimental data agreed with the formulas within 20% or better. Orig. art. has: 5 figures and 15 formulas.

SUB CODE: 09, 12 / SUBM DATE: 03Jul63 / ORIG REF: 006

Card 1/1

BELAVTSEVA, Ye.M.; GUMARGALIYEVA, K.Z.; KITAYGORODSKIY, A.I.

Electron microscope study of grafted polymers. Dokl. AN SSSR 153 no.3:631-633 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Predstavleno akademikom I.V. Obreimovym.

1. BELAVENTSEVA, YE.S.

2. USSR (600)

4. Attar of Roses

7. Effect of crumpling of petals of red attar roses on the essential oil content in them. Masl.zhir.prom. 17 no. 6. 1952

9. SOURCE: Monthly List of Russian Accessions, Library of Congress, ~~March,~~ February 1953. Uncl.

BELAVENTSEVA, YE.S.

USSR

**Effect of crumpling of petals on the amount of essential oil in red roses.** B. S. Belaventseva. *Efirnomaslichnye Kul'tury* (Sel'khozgiz) ~~1953, 114-18;~~ *Referat. Zhur., Khim.* 1954, No. 35177.—Crumpling of petals of red roses increased the amt. of essential oil (I) present in the petals when stored in air, 10% NaCl soln., and in 0.08% soln. of Na salicylate. Since the amt. of disaccharides decreased and the amt. of reducing sugars increased in such petals it seems that the accumulation of I in the crumpled petals occurred at the expense of the products of the enzymic breakdown of carbohydrates and proteins. The process proceeded more intensely in the absence of air. Decreasing the temp. to 0° during storage had no particular effect on the formation of I. Under special conditions of prolonged storage the yield of I from the crumpled petals of red roses was increased about 2.5 times. B. Wierbicki

BELAVIN, D. V., Engr. Cand. Tech. Sci.

Dissertation: "Optimum Characteristics of SPU (Aircraft Radiotelephone Equipment). Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidje, 19 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

CHERNOBROVKIN, Yu.G.; BELAVIN, L.P.

Die casting in small batch production. Lit. proizv. no.8:30 Ag '63. (MIRA 16:10)

BELAVIN, L.V.

Treatment of obliterating endarteritis and obliterating atherosclerosis by a compound conservative method. Khirurgiia 39 no.7: 125-127 Jl'63 (MIRA 16:12)

1. Iz mediko- sanitarnoy chasti Nizhne-Tagil'skogo metallurgicheskogo kombinata imeni V.I.Lenina (glavnyy vrach - zasluzhennyy vrach RSFSR M.N.Zelenskaya).

**VOLKOV, A.M.; BELAVIN, N.F.**

Technology of preparing a case lock. Med.prom. 31 no.10:51-52
O '59. (MIRA 13:2)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.
(SURGICAL INSTURMENTS AND APPARATUS)

Z/030/62/000/011/002/003
E073/E135

AUTHORS: Bolchovitinova, Ye.N., and Belavin, N.F.

TITLE: Application of induction heating for hardening surgical scalpels of steel EI-515.

PERIODICAL: Jemná mechanika a optika, no.11, 1962, 348-349

TEXT: This article appears to be an abridged version of an article originally published in Meditsinkaya promyshlennost' no.8, 1961, 49-52. Surgical scalpels are made primarily of steel EI-515 (composition C 1%, Cr 12-14.5%, Mo 1.5-1.8%, Si 0.35%, Mn 0.5-0.8%), which must be heat-treated to RC 58-62 to ensure satisfactory cutting properties and resistance to corrosion. The final quality depends to a great extent on the heat-treatment. The scalpels are h.f. hardened, using a 500-700 kc/s oscillator, 17.5 kW input, 8 kW output. The inductor must fit closely the complex shape of the blade; sketches of the most characteristic inductor shapes used in the experiments are shown in Fig.1. In the inductors a and b the blade temperature was not high enough and therefore its hardness was low, although the handle hardened to RC 60 and more. The

Card 1/3

Application of induction heating ... Z/030/62/000/011/002/003
E073/E135

inductor c produced intensive and rapid heating. Inductors d, e and f enabled the handle to be heated as well as the blade but the temperature rise was nonuniform. In the inductor g both the blade and the handle heated up uniformly provided that during the heating process the scalpel was moved from the initial position in the short loop, where only the handle heated up, to the final position in the long loop where both the handle and the blade became heated. This movement was effected by a mechanism as shown in Fig.2, where: 1 - high-frequency oscillator; 2 - inductor; 3 - asbestos-cement disc; 4 - base; 5 - handle for manual drive; 6 - wormgear transmission; 7 - motor. The disc 3 is 600 mm in diameter, 15 mm thick and contains grooves; it is able to carry 50 scalpels. These are moved into the inductor during rotation and become heated. Optimum quenching medium: 80% KOH, 20% NOH plus water (4-5% of the total weight of the melt) with a bath temperature 220-250 °C and a quenching time of 1 min. Compared to furnace-heated scalpels, the average hardness (59-61 RC) and the microhardness of induction-heated ones are somewhat higher but their impact strength is somewhat lower.

Card 2/3 There are 2 figures and 1 table.

Application of induction heating ... Z/030/62/000/011/002/003
E073/E135

Fig. 1.

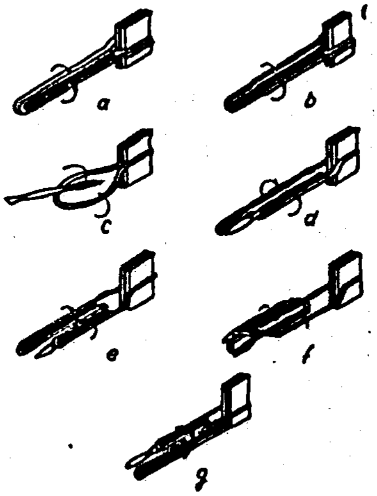
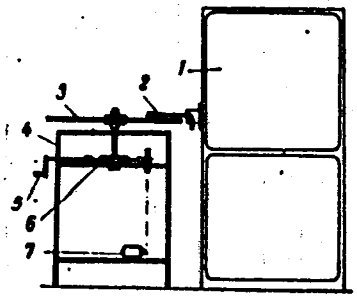


Fig. 2.



Card 3/3

BELAVIN, N.F.

Spot welding of thermocouples on a semiautomatic setup. Zav. lab. 30 no.9:1148-1149 '64. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

BELAVIN, N.F.

Isothermal transformation of the austenite phase in I515 stainless steel. Metalloved. i term.obr.met. no.1:49-50 Ja '65. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

L 38543-66 EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HM/HW

ACC NR: AT6012411 SOURCE CODE: UR/0000/65/000/000/0325/0328

60
57
B+1

AUTHORS: Belavin, N. F.; Shakhmatov, V. G.

ORG: none

27

TITLE: Investigation of the possible use of titanium alloys for surgical instruments, devices, and methods of connecting tissues

SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 325-328

surgical equipment, wear resistance, high strength alloy, corrosion resistance,
TOPIC TAGS: medical equipment, titanium alloy, stainless steel, metal property, bending strength /VT5-1 titanium alloy, OT4-1 titanium alloy, VT14 titanium alloy, 3Kh13 stainless steel, Kh18N9T stainless steel, IMP1-A titanium alloy

ABSTRACT: The possible use of titanium alloys for surgical instruments and devices was considered qualitatively and to some extent experimentally. The most desirable features of a metal for this application are high strength (primarily in bending), resistance to wear, and resistance to corrosion. Titanium alloys IMP1-A, VT5-1, OT4-1, and VT14 were investigated in these three categories and compared with stainless steels 3Kh13 (strength) and Kh18N9T (corrosion resistance). Alloys VT5-1, OT4-1, and VT14 were found to have approximately the same strength in bending and, although lower than 3Kh13, were found acceptable. Wear characteristics of the

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titanium alloys were tested and were found to be 0.35, 0.96, 0.22, and 1.2 (mm/half hour) respectively for VT5-1, OT4-1, VT14, and IMP1-A (unplated) and 0.015, 0.02, 0.009, and 0.03 with nickel-phosphorus plating. After 48 hours submersion in 10% iodine solution, alloy IMP1-A showed a very small amount of point corrosion while the other alloys were practically unaffected. It was also found that the alloys could be successfully soft-soldered to each other and to steel 3Kh13. It is concluded that these alloys could be used for surgical instruments and devices. Orig. art. has: 2 figures and 1 table.

SUB CODE: 11, 13, 06/ SUBM DATE: 02Dec65/ ORIG REF: 003/ OTH REF: 001

Card 2/2

BELAVIN, N.I., kand. tekhn. nauk

Freighter with an atomic power plant built in the Federal Republic of Germany. Sudostroenie 30 no.12:60-61 D '64.
(MIRA 18:6)

BELAVIN, Nikolay Ivanovich; KUPLYANSKIY Veniamin Mikhaylovich; KULINICH, D.D., red.; MEDNIKOVA, A.N., tekhn. red.

[Rocket weapons on combat vessels] Raketnoe oruzhie boevykh korablei. Moskva, Voen. izd-vo M-va obor. SSSR, 1961. 166 p. (MIRA 14:11)
(United States—Rockets (Ordnance))
(United States—Ordnance, Naval)

L 25798-66 ARG/EEC(k)-2/EWP(c)/EWT(d)/EWT(l)/EWP(h)/FBD/FBO/ETC(m)-6/FSS-2 IJP(c) BC/WW

ACC NR: AM6008538 Monograph 105 UR/
103
B+1

Belavin, Nikolay Ivanovich (Candidate of Technical Sciences); Kuplyanskiy, Veniamin Mikhaylovich (Candidate of Technical Sciences)

Major naval weapons (Glavnoye oruzhiye flota) Moscow, Voyenizdat M-va obor. SSSR, 1965. 279 p. illus., biblio. 4500 copies printed.

TOPIC TAGS: naval weapon, airborne weapon, antitank weapon, underwater weapon, antiaircraft weapon, air to surface weapon, weapon auxiliary equipment, weapon component, weapon delivery, weapon launcher, weapon system, guided missile, antisubmarine missile, air to air missile, ballistic missile, surface to underwater missile, missile guidance, unguided missile, antisubmarine warfare

PURPOSE AND COVERAGE: This book is based on information published in non-Soviet and Soviet open literature and is intended for military and civilian readers interested in aspects of the development of naval fleets in general, and in naval rocket weapons in particular. A review is given of the basic forms of rocket weapons of various classes and types which are being tested or are already found in the naval armament of the fleets of the leading capitalist countries. Particular attention is paid to guided rocket weapons since they are more interesting in a technical sense and show great

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prospects for use in future combat operations. Tactical and technical data on modern missile-armed naval ships^15 and carrier-based aircraft are also given. The authors devote a great deal of space to the opinions of non-Soviet military specialists on the use of rocket weapons and their delivery systems in future naval combat operations.

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SUB CODE: 15, 16/ SUBM DATE: 06Aug65/ ORIG REF: 012/ OTH REF: 015

Card 4/4 ac

BOLKHOVITINOVA, Ye.N.; BELAVIN, N.F.

Use of an induction heater for tempering surgical scalpels made of EI-515 steel. Med. prom. 15 no.8:49-52 Ag '61. (MIRA 14:12)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

(SURGICAL INSTRUMENTS AND APPARATUS)

BELAVIN, N.F.

Semiautomatic welding machine. Med. promyshl. SSSR 17 no.8:47-50 Ag'63 (MIRA 17:2)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov.

ANTOSHINA, N.V.; ASTAF'YEV, G.V.; BABKIN, S.I.; BELAVIN, N.F.;
BELEN'KIY, V.A.; BEREZIN, I.P.; BOBROV, B.S.;
VOLKOV, A.M.; GRITSMAN, Yu.Ya.; KUKUSHKIN, L.I.; PEREPELKIN,
V.P.; PETROVA, N.P.; GESELEVICH, A.M., red.; DEKHTYAR', Ye.G.,
red.

[New surgical apparatus and instruments; a practical manual for physicians, students of senior courses at medical institutes and surgical nurses] Novye khirurgicheskie apparaty i instrumenty; prakticheskoe rukovodstvo dlia vrachei, studentov starshikh kursov meditsinskikh institutov i operatsionnykh sester. Moskva, Meditsina, 1964. 253 p.
(MIRA 18:3)

BELAVIN, Oleg Vasil'yevich, dots.; ZEROVA, Margarita Vladimirovna, dots.; GANIN, I.K., red.

[Modern means of radio navigation] Sovremennye sredstva radionavigatsii. Moskva, Sovetskoe radio, 1965. 279 p. (MIRA 18:10)

BELAVIN, O. V., Engineer

"Optimum Characteristics of SPU (Aircraft Radiotelephone Equipment)." Sub 19 Jun 47, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

BELAVIN, Oleg Vasil'yevich; VEYTSEL', V.A., kandidat tekhnicheskikh nauk, redaktor; BELITSKAYA, A.M., izdatel'skiy redaktor; ZUDAKIN, I.M., tekhnicheskiy redaktor

[Air navigation by radio] Radiotekhnicheskie sredstva samoletovozhdeniia. Moskva, Gos. izd-vo obor. promyshl., 1956. 219 p. (Radio in aeronautics) (MLRA 9:11)

BELAVIN, O. V.

"On the Theory of an Inertial Detector," pp 98-113, ill, 4 ref

Abst: An analysis is given of an inertial detector circuit. The parameters of the detector are found for the case of approximation of diode characteristics by exponential functions. The results obtained may be used in computing detector stages for broadcast and professional radio receivers.

SOURCE: Trudy MAI im. S. Ordzhonikidze MVO SSSR (Works of the Moscow Aviation Institute imeni S. Ordzhonikidze of the Ministry of Higher Education USSR), No 83, Some Problems of Superhigh-Frequency and Pulse Technology, Moscow, Oborongiz, 1957

Sum 1854

BELAVIN, O.V.

6(4); 7(7); 9(3) P.6 PHASE I BOOK EXPLOITATION SOV/2665

Moscow. Aviatsionnyy institut imeni Sergo Ordzhonikidze

Issledovaniye tochnosti i pomekhoustoychivosti fazovykh radiopelengatorov; sbornik statey (Study of the Accuracy and Noise Protection of Phase Radio Direction Finders; Collection of Articles) Leningrad, Sudpromgiz, 1959. 92 p. (Series: Its: Trudy, vyp. 105) Errata slip inserted. 4,500 copies printed.

Resp. Ed.: V.B. Pestryakov, Professor; Ed.: V.S. Chichkanova; Tech. Ed.: L.I. Levochkina.

PURPOSE: This collection of articles is intended for scientific personnel and engineers and graduate students specializing in phasing techniques.

COVERAGE: The collection deals with the theoretical investigation of the accuracy and of the noise-killing feature of certain types of phase radio direction finders of interest for modern radio navigation, radar, and radio control. An analysis of instrument errors of two types of radio direction finders is presented. Statistical phase properties of signals and

Card 1/7

of Gaussian errors in two-channel phase radio direction finders are investigated. Several graphs may be of use in engineering calculations. The articles are based on material from the proceedings of a conference organized by the Moscow Aviation Institute in February, 1956. The investigations were carried out by scientific personnel of the radio engineering department of the Institute. References follow each article.

TABLE OF CONTENTS:

Foreword 3

Ul'yanov, V.S., Candidate of Technical Sciences. Equipment Errors of a Two-channel Pulse Radio Direction Finder 6

The author analyzes equipment errors, occuring due to lack of identity between amplifying channels and the resulting unbalance, in two-channel radio direction finders using continuous and pulsed radio signals. He derives functional relationships for this unbalance with respect to amplitude and phase. He finds that unbalance can lead to a difference in the amplification factor modulus between channels of up to 44 percent. However, from experience it was found that obtaining a 20 percent amplification balance of channels is not difficult. He then investigates the lack of balance between tuned amplifiers with a harmonic signal and draws curves of relationships for the systematic tuning error of the operator for various values of unbalance in one-stage and two-stage channels. The author also investigates channel unbalance for pulsed radio signals. In paragraph 3 diagrams of the modulus and phase of the voltage envelope at the output of one-and two-stage tuned amplifiers are presented and are used to determine the instantaneous magnitude of error at a given pulse moment. Curves showing the dependence of average error on pulse duration are also presented. The author concludes that with a pulse duration twice that of the optimal, error is practically equal to that with a continuous signal. With a shorter pulse duration, error declines. No personalities are mentioned. There are two references: 1 Soviet and 1 English.

Tsvetnov, V.V., Candidate of Technical Sciences. Effect of Gaussian Error on Two-channel Phase Systems 26

This article is a continuation of two earlier works by the author. In it he investigates basic statistical properties of sinusoidal signals and of Gaussian errors in phase systems with channel separation, taking into consideration the lack of identity between the channels and in error correlation.

Since noise-suppression methods in phase systems are comparatively scarce, the author attempts to develop a theory for random noise in order to develop a theory for random noise in order to develop noise-killing features in the phase systems themselves. The author divides his problem into three stages, the first of which is common for all phase systems. The two others must be solved separately for each system. The first stage consists in investigating statistical properties of the signal and of the Gaussian error at the phasometer input on the basis of initial statistical parameters of the signal and noise. The second stage consists in finding a relationship between the initial statistical parameters of signal and noise and the structure of the shaping channels, the mechanism of noise emergence, etc. The third stage takes into consideration the effect of the phasometer. On the basis of these three stages it is possible to determine the accuracy of the phase system. The author establishes his first phase distribution rule, which is expressed in parametric form in order to simplify final formulae. These formulae are developed for both symmetrical and asymmetrical two-channel systems. He draws several curves of error relationships and concludes that with the help of his general formula, it is possible to solve the first stage of the general problem of the noise-killing feature (analytically or graphically) for any two-channel system.

In Appendix A the author presents some derivations of integrals found in paragraphs 7 to 9 of his work. In Appendix B he lists properties and draws diagrams of the L-functions. No personalities are metnioned. There are 16 references: 7 Soviet (including 2 translations), and 9 English.

Veytsel', V.A., Candidate of Technical Sciences. Effect of Fluctuations of the Amplitude of the Reflected Signal on the Accuracy of Measuring the Width of a Beam of Scattered Waves 68

The author explains the role of the angular width of a beam of scattered waves in studying the composition of the ionosphere. In some of the works listed as references methods for measuring this parameter were presented. These methods concerned diversity effects in spaced-aerial reception of ionospheric waves. However, when they are applied, an error is introduced. The aim of this work consists in explaining to what extent this error is essential and under what conditions it can be neglected. The author concludes that in measuring the beam width one can neglect the correction for the effect of signal amplitude fading in the case when the power of the received signal considerably exceeds the threshold sensitivity of the direction finder. When the ratio of threshold to received power is small, the measurements obtained with the DF are somewhat smaller than actual.

No personalities are mentioned. There are 6 references: 5 Soviet, and 1 English.

~~Belavin, O.V.,~~ Candidate of Technical Sciences. Problem of Equipment Errors in Automatic Shortwave Radio Direction Finders With a Large Base ("Add-subtract" Radio Direction Finders With Phase Comparison) 74

The article is devoted to an analysis of instrument accuracy of a radio direction finder with channel separation, having single-channel amplification in the main channel. This direction finder was developed by the members of the radio department of the MAI and used from 1950 to 1954 for an analysis of statistical properties of the ionosphere. The author discusses the three basic methods of large-base radio direction finding: phase, amplitude, and amplitude-phase. He devotes his attention to the last type, presents its basic equations, finds the required accuracy in measuring phase differences, and determines and analyzes equipment errors. The methods used in accounting for instrument errors in the radio direction finder analyzed may be applied for designing other director finder variations operating with the "add-subtract" method and having a low frequency phase difference measurement. No personalities are mentioned. There are three references: 2 Soviet, and 1 German.

7(2, 7) PHASE I BOOK EXPLOITATION SOV/2233

Belavin, Oleg Vasil'yevich, Viktor Abramovich Veytsel', and Vasiliy Ul'yanov

Korotkovolnovyye radiopelengatory (Short-wave Radio Direction Finders) Moscow, Oborongiz, 1959. 123 p. (Series: Moscow. Aviatsionnyyeinstitut imeni Sergo Ordzhonikidze) 11,500 copies printed.

Ed.: S. I. Bumshteyn; Tech. Ed.: V. P. Rozhin; Managing Ed: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is a textbook for students of radio engineering. It may also be used by engineers and graduate students working in the field of short-wave radio direction-finding and phase measurement.

COVERAGE: The authors describe basic methods of short-wave direction finding and discuss block diagrams of direction finders with antenna spacings larger than the wavelength. Special attention is given to circuits of direction finders operating with continuous

Card 1/6

and pulse radio signals. The authors also discuss typical errors occurring during bearing measurement and present methods of improving the accuracy of direction finding. They also analyze various equipment errors and discuss methods of designing radio direction finders. They present the results of research on the analysis of errors of receiving channels and phase meters, conducted on laboratory models at the Moskovskiy Aviatsionnyy Institut (Moscow Aviation Institute). Chapter I was written by Docent O. V. Belavin, Candidate of Technical Sciences, Chapters II and VI by V. A. Veytsel', Candidate of Technical Sciences, and Chapters III, IV, V by V. S. Ul'yanov, Candidate of Technical Sciences. No personalities are mentioned. There are 19 references: 13 Soviet, 4 English and 2 German.

TABLE OF CONTENTS:

Foreword 3

Ch. I. Methods of Direction Finding and Block Diagrams of Radio Direction Finders With Antenna Spacings Larger Than the Wavelength 5

1. Short-wave radio direction-finding systems 5

2. Radio direction finders with antenna spacings smaller than the wavelength 6

3. Radio direction finders with antenna spacings larger than the wavelength 7

4. Methods of direction finding 8

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Fast rotation of a directional pattern 12

Measurement of phase difference (phase method) 14

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7. Circuits for signal amplification in short-wave radio direction-finders with antenna spacings larger than the wavelength 30
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   - Single-channel amplification with signal conversion by means of additional modulation 35
   - Single-channel amplification with signal conversion by means of heterodyning 37
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   - Amplification obtained through utilization of control-frequency voltages 41
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1. Effect of ionosphere on radio wave propagation 46
2. Bearing errors due to peculiarities of short-wave propagation 47

3. Methods of reducing the amount of error due to interference 52

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1. Two types of two-channel amplification circuits 60
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1. Parameters of nonidentical channels 74
2. Passband of a two-channel radio direction finder 78
3. Errors due to nonidentity of resonant amplifier channels 80

Ch. V. Equipment Errors of a Two-channel Radio Direction Finder During the Application of Pulse Radio Signals 88
1. Nature of the electron image on the tube screen during the application of a pulse signal 88

BELAVIN, Oleg Vasil'yevich

Short wave direction finders: USSR. New York, USJPRS, 1960.

219 p. illus., diagrs., graphs, tables.

(JPRS: 2698)

Translated from the original Russian: Korotkovolnovyye

radiopelengatory. Moscow, 1959.

Bibliography: p. 218-219.

34265
S/142/61/004/005/011/014
E140/E135

13,2100

AUTHOR: Belavin, O.V.

TITLE: Phase radiodirection finder with indication independent of amplitude ratio

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v.4, no.5, 1961, 613-615

TEXT: The basic system is shown in Fig.2. Here, 1 and 2 are the antennas, УВЧ are rf preamplifiers, ПЧ is a frequency converter, Г is an oscillator, Пр is the receiver, Ф is a filter, ФМ is a phase meter. On the assumption that the receiver detector has a square law characteristic, the author shows that the output signal of the filter has a phase differing from that of the oscillator shifted by 90° independently of the ratio of amplitudes at the input to the receiver. The frequency of Г is a low frequency, well within the linear phase characteristic referred to the receiver output. A brief discussion of errors is given and it is shown that a systematic error may be presented which can be calibrated.
There are 3 figures.
Card 1/2

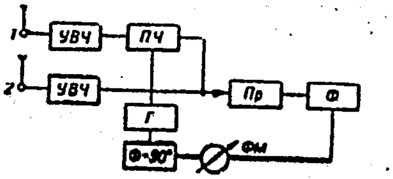
34265

Phase radiodirection finder with ... S/142/61/004/005/011/014
E140/E135

ASSOCIATION: Kafedra Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze (Department of Moscow Order of Lenin Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED: January 28 1960 initially, and after revision October 3, 1960.

Fig.2



Card 2/2

ACC NR: AM6003233 Monograph UR/

Belavin, Oleg Vasil'yevich; Zerova, Margarita Vladimirovna

Modern methods of radio navigation (Sovremennyye sredstva radionavigatsii) Moscow, Izd-vo "Sovetskoye radio", 65. 0279 p. illus., biblio. Errata slip inserted. 9,300 copies printed.

TOPIC TAGS: spacecraft navigation equipment, radar tracking, radar system, doppler tracking, artificial satellite orbit, orbit parameter

PURPOSE AND COVERAGE: This book views the principles of operation of modern radar devices and systems and describes their basic characteristics. Special attention is given to radar systems designed to secure guidance of cosmic flight instruments. Methods are given for determining orbit parameters by measuring navigational dimensions with statistical determinations. Variants of schemes for units or radar devices are given as well as estimates of measurement precision. This book is recommended as a text for students of radio technology specialties in aviation institutes, and it can also be useful to engineers working with radar devices.

TABLE OF CONTENTS: (abridged):

Foreword—3
Ch. I. Determining orbit parameters of artificial Earth satellites by measuring one navigational dimension—5

Card 1/2 UDC:621.396.981(075)

ACC NR: AM6003233

Ch. II. Determining orbit parameters of artificial Earth satellites by measuring several navigational dimensions--27
Ch. III. Radar tracking systems of artificial Earth satellites--39
Ch. IV. Determining the position of the flying apparatus by signals from the artificial Earth satellite--87
Ch. V. Doppler meters of the velocity vector--103
Ch. VI. Radar astronavigation devices--171
Ch. VII. Vertical-incidence radar--192
Ch. VIII. Hyperbolic phase systems without signal modulation--207
Ch. IX. Phase systems with signal modulations--241
Suppl. to ch. 2: Estimates of the precision of measurement of orbit parameters by measuring three navigational dimensions--263
Bibliography--273

SUB CODE: 17,22/ SUBM DATE: 21Aug65/ ORIG REF: 052 OTH REF: 025

Card 2/2

ACC NR: AT6037041 SOURCE CODE: UR/0000/66/000/000/0027/0035

AUTHOR: Belavin, O. V. (Candidate of technical sciences)

ORG: none

TITLE: Comparison of the methods of detecting sinusoidal signals in the presence of noise

SOURCE: Moscow. Aviatsionnyy institut. Teoriya i tekhnika radiolokatsii (Radar theory and techniques); sbornik statey, no. 1, Moscow, Izd-vo Mashinostroyeniye, 1966, 27-35

TOPIC TAGS: signal detection, signal to noise ratio, sinusoidal signal detection

ABSTRACT: In addition to the usual comparison based on the calculation of the probability of correct detection, a criterion of comparison is suggested which is the ratio of output values obtained after their processing. This ratio can be determined when the calculation of the probability of correct detection proves to be impossible. It is shown that the proposed method of comparison qualitatively

Card 1/2 UDC: 621.396.963(04)

ACC NR: AT6037041

yields the same results as the calculation of the probability of correct detection. Orig. art. has: 33 formulas and 2 figures. [Translation of abstract] [DW]

SUB CODE: 09/SUBM DATE: 15Jul66/ORIG REF: 004/OTH REF: 003/

Card 2/2

L 60022-65 EWT(1)/EWT(m) JD

ACCESSION NR: AR5002396 S/0271/64/000/010/B014/B014

681.142.644.3

SOURCE: Ref. zh. Avtomat., telemekh. i vychisl. tekhn. Sv. t., Abs. 10B86

8

B

AUTHOR: Nigmatullin, R. Sh.; Belavin, V. A.

TITLE: Electrolytic fraction-differentiating and integrating two-terminal network

CITED SOURCE: Tr. Kazansk. aviats. in-ta, vyp. 82, 1964, 58-66

TOPIC TAGS: electrolytic differentiator, electrolytic integrator

TRANSLATION: A possibility has been theoretically and experimentally proven of creating an electrochemical two-terminal network (a two-electrode cell) which would carry out differentiation or integration operation. Its passband (with an error of 20%) lies within 0.03—240 cps. The upper boundary frequency can be increased up to 1.6 kc by connecting in series an accurately calibrated resistor. The permissible amplitude of the converted voltage is 50 mv. The nonlinear distortion factor is 5% or less. The cell can be used for simulating heat-conductance processes, for fractional one-half order differentiation (integration), and also for shortening pulses.

SUB CODE: IP ENCL: 00

Card 1/1

L 39531-66 T GD/JXT(C

ACC NR: AT6005739 SOURCE CODE: UR/2529/64/000/082/0027/0033

AUTHOR: Miroshnikov, A. I.; Vyaselev, M. R.; Belavin, V. A.

ORG: none

TITLE: Oscilloscopic equipment for measuring characteristics of electrochemical transducers

SOURCE: Kazan. Aviatsionnyy institut. Trudy, no. 82, 1964. Radiotekhnika i elektronika (Radio engineering and electronics), 27-33

TOPIC TAGS: electrochemical diode, polarography

ABSTRACT: These characteristics of electrochemical transducers used in polarographic work can be measured by the new equipment: (1) Static I-V charact.; (2) Transient characteristic; (3) Dynamic characteristic. A block diagram of the new outfit contains: a sawtooth, triangular, and square 0.001—100cps voltage generator with a pulse rise from 1 mv/sec to 100 v/sec; a compensator (a 2-stage balanced d-c amplifier); a calibrator with its changeover switch; an oscilloscope with its amplifiers; a photo attachment. The outfit permits segregation of diffusion and capacitive currents. Nine oscillograms illustrate the performance of the outfit. Orig. art. has: 7 figures.

SUB CODE: 20, 09 / SUBM DATE: 03Jul63 / ORIG REF: 002 / OTH REF: 001

Card 1/1 vmb

BELAVIN, Yu. A.

Dissertation: "Reproduction of Trees and Bushes by Green Grafts and the Increase in Rooting Capacity of Grafts During Repeated Grafting." Cand Agr Sci, Moscow Forestry Engineering Inst, 9 Jun 54. Vechernyaya Moskva, Moscow, 31 May 54.

SO: SUM 284, 26 Nov 1954

Passage of phosphorus from a side root into branches [illegible]

[illegible] and [illegible] rooted [illegible]

**BELAVIN, Yu.A.**

Arachnodactyly and ectopy of the crystalline lens with retinal detachment. Vest.oft.71 no.1:55-56 Ja-F '58. (MIRA 11:3)

1. Klinika glaznykh bolezney (zav.-prof. P.Ye.Tikhomirov) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(ARACHNODACTYLY, case reports
with ectopy of crystalline lens & retinal detachment)
(CRYSTALLINE LENS, abnorm.
ectopy in arachnodactyly with retinal detachment)
(RETINAL DETACHMENT, case reports
in arachnodactyly with ectopy of crystalline lens)

BELAVINA, I.G.; POTASHNIKOV, M M.

Solubility of the nitrates, monosubstituted phosphates, and chromates of quinoline and isoquinoline in water. Zhur. prikl. khim. 37 no. 5:1025-1029 My '64. (MIRA 17:7)

POTASHNIKOV, M.M.; BELAVINA, I.G.

Properties of quinoline base hydrates. Zhur. prikl. khim. 38 no.7:
1585-1591 Jl '65. (MIRA 18:7)

1. Nizhne-Tagil'skiy gosudarstvennyy pedagogicheskiy institut.

BELAVINA, N. N.,

"Influence of Suprarenal Cortex on the Secual Apparatus: On the Action of Human Suprarenal Crotex on the Genitalia of Hypophysectomized Rats," Dok. AN, 27, No. 7, 1940.

State Inst. Experimental Endocrinology. People's Commissariat Health, RSFSR.

**BELAVINA, N.N.**

Self imprint of tissue and organs on a photographic plate: preliminary communication. Biul. eksp. biol. i med. 38 no.10: 76-78 O '54. (MLRA 8:1)

1. Iz laboratorii biologii zlokachestvennogo rosta (zav. kandidat med. nauk A.V.Tyufanov) Instituta eksperimental'noy biologii (dir. prof. I.N.Mayskiy) AMN SSSR, Moskva.

(PHOTOGRAPHY,
tissue & organs imprints on photographic plates)
(HISTOLOGY,
tissue & organs imprints on photographic plates)

BELAVINA, N.N.

USSR/ Biology - Experimental morphology

Card 1/1 Pub. 22 - 45/47

Authors : Belavina, N. N.

Title : Autogram of animal tissues and organs on a photo-film

Periodical : Dok. AN SSSR 99/1, 173-175, Nov 1, 1954

Abstract : The use of photo-films for determining the morphological characteristics of animal tissues and organs is described. Two USA references (1949 and 1953). Illustrations.

Institution : Academy of Medical Sciences USSR, Institute of Experimental Biology

Presented by: Academician A. D. Speranskiy, August 4, 1954

BELAVINA, N.N.

Characteristics of direct impressions of growing animal and plant tissue on photographic plates; preliminary report. Biul. eksp.biol. i med. 40 no.10:56-58 Oct. '55. (MLRA 9:1)

1. Iz laboratorii rosta i razvitiya (zav.-prof. M.A.Vorontsova) Instituta eksperimental'noy biologii (dir.-prof. I.N.Mayskiy) AMN SSSR) 1 M 3

(HISTOLOGY,
direct impression on photographic plate of growing animal & plant tissues)
(PHOTOGRAPHY,
direct impression on photographic plate of growing animal & plant tissue)
(GROWTH, same)

**BELAVINA, N.N.**

The autographic method. Biul.MOIP. Otd.biol. 62 no.3:102-103
My-Je '57. (MLRA 10:8)
(RADIOGRAPHY)

BELAVINA, N.N., Cand Bio Sci--(diss) "Method of autography and its application in biology and medicine." Mos, 1958. 8 pp (Acad Med Sci USSR), 200 copies (KL,25-58,110)

BELAVINA, N.N., kand.biologicheskikh nauk

Autography. Nauka i zhizn' 28 no.7:72-73 Jl '61. (MIRA 14:8)
(Photography—Scientific application)

POLYAK, M.A.; EPSHTEYN, V.G.; GLAVINA, V.S.; BELAVINA, N.P.

Investigating the possibility of using the oxalate of triethanolamine as vulcanization accelerator. Khim. i khim. tekh. 1:133-138 '62. (MIRA 17:2)

ACCESSION NR: AT4029925 S/3087/62/001/000/0133/0138

AUTHOR: Polyak, M.A.; Epshteyn, V.G.; Glavina, V.S.; Belavina, N.P.

TITLE: The study of the possibility of using tri-ethanolamine oxalate as a vulcanization accelerator

SOURCE: Yaroslavl'. Tekhnologicheskiy institut. Khimiya i khimicheskaya tekhnologiya, vol.1, 1962, 133-138, № 8

TOPIC TAGS: triethanolamine oxalate, vulcanization, vulcanization accelerator, nairit, neoprene

ABSTRACT: The authors sought a new type of accelerator based on inexpensive, widely available raw material having a great induction period of action and which is suitable for vulcanization of different types of caoutchouc, including Nairit (neoprene). They studied the effect of tri-ethanolamine oxalate on a vulcanization of rubber mixtures based on natural and polychloroprene caoutchouc. It was shown that tri-ethanolamine oxalate accelerates the vulcanization of natural caoutchouc, assuring an increase in the modulus index of 300% and a pressure resistance of a rubber comparable to the accelerator mercaptobenzothiazole. The advantages of tri-ethanolamine oxalate were especially evident at an increased (161°C) vulcanization tem-

Card 1/2

ACCESSION NR: AT4029925

perature. The kinetic curve of the sulfur bonding in the presence of tri-ethanolamine oxalate has, approximately, an s-shape character; i.e., in the initial stage of vulcanization sulfur addition is restrained. Tri-ethanolamine oxalate in a dose of 0.5 by weight in mixtures, based on Nairit, increased the resistance of the mixtures to subvulcanization, and with a content of 2.0 by weight, it accelerated vulcanization to which the dosage of the metal oxides can be lower. Tri-ethanolamine oxalate is recommended as an accelerator of vulcanization for tire carcases mixtures based on natural caoutchouc. Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: none

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|---|---|---|
| SUBMITTED: 00 | DATE ACQ: 29Apr64 | ENCL: 00 |
| SUB CODE: CH | NO REF SOV: 010 | OTHER: 002 |

Card 2/2

**BELAVINA, O.A.**

Rheumatism in children. Pediatriia no.3:91 My-Je '54. (MLRA 8:1)

1. Iz Stalinskogo instituta usovershenstvovaniya vrachey.
(RHEUMATIC FEVER)

DAVIDENKOVA, Ye.F., prof.; BELAVINA, Z.P.; KOLOSOVA, N.N.; NEKHAMKINA, A.G.

Results of the use of furazol in some diseases of the peripheral nervous system. Trudy LPMI 31 no.2:34-39 '63.

(MIRA 17:10)

1. Iz kafedry nevropatologii Leningradskogo pediatricheskogo meditsinskogo instituta.

L 05036-67 EWT(d)/EWT(m)/EWP(f) WE

ACC NR: AR6031160 (AN) SOURCE CODE: UR/0081/66/000/015/P033/P033

AUTHOR: Belavinskaya, L. M.; Gikht, B. M.; Shchitikov, V. K.

62
B

TITLE: The thermal stability of fuels for jet engines 23

SOURCE: Ref. zh. Khimiya, Part II, Abs. 15P224

REF SOURCE: Sb. Issled. protsessov adsorbts. i katalitich. ochistki nefteproduktov v prisutstvii porist. tel. No. 1. Saratov, Saratovsk. un-t, 1965, 39-40

TOPIC TAGS: thermal stability, reaction engine, jet engine, jet engine fuel, jet fuel/TS-1 jet fuel, TS-1 fuel, T-2 fuel, T-2 jet fuel

ABSTRACT: A study was made of the change of thermal stability during the prolonged storage of TS-1 and T-2 jet fuels, with additives of polymetacrylate, ionol, and parahydroxydiphenilamine in concentrations (Wt %) of 0.01, 0.05, and 0.05, respectively. After storing the fuels with the additives for one year, there were no changes in their thermal stability. [Translation of abstract]

SUB CODE: 21/

Card 1/1

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